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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,469	06/14/2007	Chul-Sik Yoon	1403-22 PCT US	6699
	7590 07/06/201 L LAW FIRM, LLP	0	EXAM	INER
290 Broadhollow Road			DOAN, PHUOC HUU	
Suite 210E Melville, NY 11747			ART UNIT	PAPER NUMBER
			2617	
			MAIL DATE	DELIVERY MODE
			07/06/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office Action Summers	10/588,469	YOON ET AL.					
Office Action Summary	Examiner	Art Unit					
	PHUOC DOAN	2617					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 11 apply and will expire SIX (6) MONTHS from 12 cause the application to become ABANDONE	I. lely filed the mailing date of this of (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
	-· action is non-final.						
3) Since this application is in condition for allowan		secution as to the	e merits is				
closed in accordance with the practice under E							
	,						
Disposition of Claims							
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.	☑ Claim(s) <u>1-13</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,4-8 and 10-13</u> is/are rejected.	S)⊠ Claim(s) <u>1,4-8 and 10-13</u> is/are rejected.						
7)⊠ Claim(s) <u>2,3 and 9</u> is/are objected to.	☑ Claim(s) <u>2,3 and 9</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	·.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correcti	= : :		FR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •		• /				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:	, , , , , , , , , , , , , , , , , , , ,	() ()					
1. Certified copies of the priority documents	s have been received.						
2.☐ Certified copies of the priority documents		on No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
	·						
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite					
3) Information Disclosure Statement(s) (PTO/SB/08)	5)	atent Application					
Paper No(s)/Mail Date	o) 🗀 oner						

DETAILED ACTION

Claim Objections

1. Claims 3, 5, 8, 10 are objected to because of the following informalities:

Claim 3, in line 5, claim recited "REP-REQ" was not fully defined in claimed.

Claim 5, lines 3, claim recited "UL-MAP" was not fully defined in claimed.

Claim 8, in line 3, claim recited "REP-REQ" was not fully defined in claimed.

Claim 10, in line 3, claim recited "REP-REQ" was not fully defined in claimed.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted

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on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 4-8, 10-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Fong (US Pub No.: 2004/0013102).

As to claim 1, Fong discloses a method for requesting channel quality information (COI) in a wireless portable Internet system (par [0023-0024, 0053] "wireless communication system associated with the receiving signal that provided by channel quality information CQI or signal quality"), comprising: a) a base station determining timing of a channel quality information request (par [0023, 0053]); b) requesting an automatic repeat request acknowledgement (ARQ-ACK) message of downlink data upon requesting the CQI from a subscriber station (par [0042, 0049, 0053] "where ARQ acknowledgement ACK message downlink from mobile stations 14") a; c) allocating a radio resource for the ARQ-ACK message and the channel quality report to the subscriber station ([0042, 0049, 0053]); d) receiving information on the ARQ-ACK message and the channel quality report ([0042, 0049, 0053]); and e) determining a modulation and coding level of downlink data by extracting the channel quality report information from the ARQ-ACK (par [0040, 0043] "applied modulation and coding that extracting the channel quality").

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As to claim 4, Fong further discloses the method for reporting the channel quality information of claim 1, wherein the CQI is a mean value or standard deviation of a carrier to interference noise ratio (CINR) of the downlink (par [0053] "the received signal quality or control quality information CQI").

As to claim 5, Fong further discloses the method for reporting the channel quality information of claim 1, wherein information on the radio resource allocated for reporting the CQI is transmitted while being included in the UL-MAP of a downlink frame (par [0026, 0053]).

As to claim 6, Fong further discloses the method for reporting the channel quality information of claim 1, further comprising: controlling the period and frequency of the CQI based on the received CQI (par [0053] "the received signal quality or control quality information CQI").

As to claim 7, Fong further discloses the method for reporting the channel quality information of claim 4, further comprising: allocating a radio resource for reporting the CQI at the front time slot of the uplink resource for the subscriber station having the larger standard deviation of the CINR (par [0053] "the received signal quality or control quality information CQI").

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As to claim 8, claim is rejected for the same reasons as set forth in claim 1.

As to claim 10, Fong further discloses the method for reporting the channel quality information of claim 8, further comprising: a-2) determining whether the REP_REQ MAC message is transmitted from the base station (par [0024-0026]); b-2) measuring the CQI and updating the same into the latest value when the REP_REQ MAC message is transmitted (par [0053]); c-2) acknowledging a radio resource of a dedicated channel allocated for the CQI report (par [0027]); and d-2) transmitting the CQI through the dedicated channel to the base station (par [0027, 0053]).

As to claim 11, Fong further discloses the method for reporting the channel quality information of claim 8, wherein the CQI is a mean value or standard deviation of a carrier to interference noise ratio (CINR) of the downlink (par [0053] "the received signal quality or control quality information CQI").

As to claim 12, Fong further discloses the method for reporting the channel quality information of claim 8, wherein the radio resource allocation information for reporting the CQI transmitted to the base station is included in the UP-MAP of an uplink frame (par [0026, 0053]).

As to claim 13, claim is rejected for the same reasons as set forth in claim 1.

Allowable Subject Matter

3. Claims 2-3, 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUOC DOAN whose telephone number is (571)272-7920. The examiner can normally be reached on 10:00AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, LESTER KINCAID can be reached on 571-272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/PHUOC DOAN/ Examiner, Art Unit 2617